



Actual Wellpath Report

THOMASON 35C-15HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#21 THOMASON 35C-15HZ (248'FNL & 1391'FWL, SEC.15) |
| Area | COLORADO | Well | THOMASON 35C-15HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | THOMASON 35C-15HZ AWB |
| Facility | SEC.15-T2N-R65W | | |

REPORT SETUP INFORMATION

| | | | |
|---------------------|---|----------------------|---------------------------------------|
| Projection System | NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | Software System | WellArchitect® 3.0.0 |
| North Reference | True | User | Augunora |
| Scale | 0.999959 | Report Generated | 16/Nov/2012 at 13:40 |
| Convergence at slot | 0.55° East | Database/Source file | WA_ANADARKO/THOMASON_35C-15HZ_AWB.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 1009.33 | -2562.02 | 3236312.95 | 1296899.09 | 40°08'43.045"N | 104°39'16.827"W |
| Facility Reference Pt | | | 3238884.46 | 1295914.54 | 40°08'33.072"N | 104°38'43.836"W |
| Field Reference Pt | | | 3197771.84 | 1268891.29 | 40°04'09.600"N | 104°47'36.000"W |

WELLPATH DATUM

| | | |
|--------------------------|-------------------|---|
| Calculation method | Minimum curvature | ENSIGN 138 (RKB) to Facility Vertical Datum |
| Horizontal Reference Pt | Slot | ENSIGN 138 (RKB) to Mean Sea Level |
| Vertical Reference Pt | ENSIGN 138 (RKB) | ENSIGN 138 (RKB) to Mud Line at Slot (SLOT#21 THOMASON 35C-15HZ (248'FNL & 1391'FWL, SEC.15)) |
| MD Reference Pt | ENSIGN 138 (RKB) | Section Origin |
| Field Vertical Reference | Mean Sea Level | Section Azimuth |



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WELLPATH DATA (105 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|---------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|-----------------------|
| 0.00† | 0.000 | 149.000 | 0.00 | 0.00 | 0.00 | 0.00 | 40°08'43.045"N | 104°39'16.827"W | 0.00 | |
| 13.00 | 0.000 | 149.000 | 13.00 | 0.00 | 0.00 | 0.00 | 40°08'43.045"N | 104°39'16.827"W | 0.00 | Tie-On |
| 113.00 | 0.460 | 149.000 | 113.00 | 0.40 | -0.34 | 0.21 | 40°08'43.042"N | 104°39'16.824"W | 0.46 | Begin GYRO Surveys |
| 213.00 | 0.460 | 98.420 | 213.00 | 1.05 | -0.75 | 0.81 | 40°08'43.038"N | 104°39'16.817"W | 0.39 | |
| 313.00 | 0.250 | 48.690 | 312.99 | 1.26 | -0.66 | 1.37 | 40°08'43.038"N | 104°39'16.809"W | 0.35 | |
| 413.00 | 0.310 | 103.980 | 412.99 | 1.41 | -0.58 | 1.80 | 40°08'43.039"N | 104°39'16.804"W | 0.27 | |
| 513.00 | 0.110 | 68.750 | 512.99 | 1.62 | -0.61 | 2.15 | 40°08'43.039"N | 104°39'16.799"W | 0.23 | |
| 613.00 | 0.240 | 179.730 | 612.99 | 1.81 | -0.79 | 2.24 | 40°08'43.037"N | 104°39'16.798"W | 0.30 | |
| 713.00 | 0.600 | 186.610 | 712.99 | 2.41 | -1.52 | 2.18 | 40°08'43.030"N | 104°39'16.799"W | 0.36 | |
| 758.00 | 0.580 | 224.940 | 757.99 | 2.66 | -1.91 | 1.99 | 40°08'43.026"N | 104°39'16.801"W | 0.86 | Tie-Into GYRO Surveys |
| 892.00 | 0.700 | 211.600 | 891.98 | 3.21 | -3.09 | 1.09 | 40°08'43.014"N | 104°39'16.813"W | 0.14 | Begin BHI MWD Surveys |
| 985.00 | 1.000 | 59.700 | 984.97 | 3.48 | -3.16 | 1.49 | 40°08'43.014"N | 104°39'16.808"W | 1.77 | |
| 1078.00 | 2.700 | 52.400 | 1077.92 | 3.21 | -1.42 | 3.92 | 40°08'43.031"N | 104°39'16.776"W | 1.84 | |
| 1170.00 | 5.200 | 50.100 | 1169.70 | 2.25 | 2.58 | 8.84 | 40°08'43.070"N | 104°39'16.713"W | 2.72 | |
| 1262.00 | 7.800 | 51.900 | 1261.10 | 0.73 | 9.11 | 16.95 | 40°08'43.135"N | 104°39'16.609"W | 2.83 | |
| 1355.00 | 10.000 | 56.600 | 1352.97 | -0.54 | 17.45 | 28.66 | 40°08'43.217"N | 104°39'16.458"W | 2.49 | |
| 1448.00 | 11.500 | 57.200 | 1444.34 | -1.35 | 26.91 | 43.20 | 40°08'43.311"N | 104°39'16.271"W | 1.62 | |
| 1541.00 | 12.500 | 58.300 | 1535.31 | -1.97 | 37.22 | 59.55 | 40°08'43.413"N | 104°39'16.060"W | 1.10 | |
| 1634.00 | 13.800 | 59.900 | 1625.87 | -2.14 | 48.08 | 77.71 | 40°08'43.520"N | 104°39'15.826"W | 1.45 | |
| 1726.00 | 13.800 | 59.500 | 1715.21 | -2.10 | 59.15 | 96.66 | 40°08'43.630"N | 104°39'15.582"W | 0.10 | |
| 1818.00 | 13.500 | 58.900 | 1804.61 | -2.25 | 70.26 | 115.31 | 40°08'43.739"N | 104°39'15.342"W | 0.36 | |
| 1910.00 | 13.300 | 59.200 | 1894.11 | -2.45 | 81.23 | 133.59 | 40°08'43.848"N | 104°39'15.107"W | 0.23 | |
| 2004.00 | 12.700 | 57.600 | 1985.70 | -2.89 | 92.30 | 151.61 | 40°08'43.957"N | 104°39'14.875"W | 0.74 | |
| 2098.00 | 11.700 | 56.600 | 2077.57 | -3.75 | 103.09 | 168.29 | 40°08'44.064"N | 104°39'14.660"W | 1.09 | |
| 2193.00 | 11.600 | 58.500 | 2170.62 | -4.43 | 113.38 | 184.47 | 40°08'44.165"N | 104°39'14.452"W | 0.42 | |
| 2288.00 | 11.800 | 57.900 | 2263.64 | -4.90 | 123.53 | 200.84 | 40°08'44.266"N | 104°39'14.241"W | 0.25 | |
| 2383.00 | 12.300 | 57.400 | 2356.55 | -5.58 | 134.14 | 217.60 | 40°08'44.371"N | 104°39'14.025"W | 0.54 | |
| 2478.00 | 11.900 | 59.000 | 2449.44 | -6.07 | 144.64 | 234.52 | 40°08'44.474"N | 104°39'13.807"W | 0.55 | |
| 2572.00 | 11.300 | 58.100 | 2541.52 | -6.41 | 154.50 | 250.64 | 40°08'44.572"N | 104°39'13.599"W | 0.67 | |
| 2667.00 | 10.900 | 57.900 | 2634.74 | -6.92 | 164.19 | 266.16 | 40°08'44.668"N | 104°39'13.400"W | 0.42 | |
| 2762.00 | 10.200 | 55.600 | 2728.14 | -7.78 | 173.72 | 280.70 | 40°08'44.762"N | 104°39'13.212"W | 0.86 | |
| 2857.00 | 10.100 | 55.400 | 2821.65 | -8.97 | 183.20 | 294.50 | 40°08'44.855"N | 104°39'13.035"W | 0.11 | |
| 2952.00 | 8.400 | 56.700 | 2915.41 | -9.93 | 191.74 | 307.16 | 40°08'44.940"N | 104°39'12.872"W | 1.80 | |
| 3047.00 | 7.000 | 60.500 | 3009.55 | -10.19 | 198.40 | 318.00 | 40°08'45.006"N | 104°39'12.732"W | 1.57 | |
| 3142.00 | 4.700 | 59.600 | 3104.05 | -10.10 | 203.22 | 326.39 | 40°08'45.053"N | 104°39'12.624"W | 2.42 | |
| 3237.00 | 2.700 | 66.400 | 3198.85 | -9.84 | 206.09 | 331.80 | 40°08'45.082"N | 104°39'12.554"W | 2.15 | |
| 3332.00 | 0.700 | 80.400 | 3293.80 | -9.36 | 207.08 | 334.43 | 40°08'45.091"N | 104°39'12.521"W | 2.13 | |
| 3428.00 | 0.700 | 180.200 | 3389.80 | -8.65 | 206.59 | 335.00 | 40°08'45.087"N | 104°39'12.513"W | 1.12 | |
| 3523.00 | 0.700 | 147.500 | 3484.79 | -7.57 | 205.52 | 335.31 | 40°08'45.076"N | 104°39'12.509"W | 0.41 | |
| 3618.00 | 0.500 | 104.100 | 3579.79 | -6.70 | 204.93 | 336.02 | 40°08'45.070"N | 104°39'12.500"W | 0.51 | |
| 3712.00 | 0.600 | 114.100 | 3673.78 | -6.01 | 204.63 | 336.87 | 40°08'45.067"N | 104°39'12.489"W | 0.15 | |
| 3807.00 | 0.800 | 114.800 | 3768.77 | -5.06 | 204.15 | 337.93 | 40°08'45.062"N | 104°39'12.475"W | 0.21 | |
| 3903.00 | 1.000 | 117.000 | 3864.76 | -3.81 | 203.49 | 339.28 | 40°08'45.056"N | 104°39'12.458"W | 0.21 | |
| 3998.00 | 1.100 | 114.000 | 3959.75 | -2.37 | 202.74 | 340.85 | 40°08'45.048"N | 104°39'12.438"W | 0.12 | |
| 4093.00 | 0.500 | 245.000 | 4054.74 | -1.67 | 202.19 | 341.31 | 40°08'45.043"N | 104°39'12.432"W | 1.55 | |



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WELLPATH DATA (105 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|---------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|----------|
| 4188.00 | 0.700 | 260.500 | 4149.74 | -1.91 | 201.92 | 340.36 | 40°08'45.040"N | 104°39'12.444"W | 0.27 | |
| 4283.00 | 0.600 | 324.100 | 4244.73 | -2.61 | 202.23 | 339.50 | 40°08'45.043"N | 104°39'12.455"W | 0.73 | |
| 4378.00 | 0.800 | 334.900 | 4339.72 | -3.77 | 203.23 | 338.93 | 40°08'45.053"N | 104°39'12.463"W | 0.25 | |
| 4473.00 | 0.800 | 334.400 | 4434.71 | -5.09 | 204.43 | 338.36 | 40°08'45.065"N | 104°39'12.470"W | 0.01 | |
| 4568.00 | 0.900 | 326.000 | 4529.70 | -6.50 | 205.65 | 337.66 | 40°08'45.077"N | 104°39'12.479"W | 0.17 | |
| 4663.00 | 0.800 | 327.800 | 4624.69 | -7.90 | 206.83 | 336.88 | 40°08'45.089"N | 104°39'12.489"W | 0.11 | |
| 4759.00 | 0.600 | 340.300 | 4720.69 | -9.07 | 207.87 | 336.36 | 40°08'45.099"N | 104°39'12.496"W | 0.26 | |
| 4854.00 | 0.800 | 351.300 | 4815.68 | -10.17 | 208.99 | 336.09 | 40°08'45.110"N | 104°39'12.499"W | 0.25 | |
| 4948.00 | 1.400 | 20.400 | 4909.66 | -11.51 | 210.72 | 336.39 | 40°08'45.127"N | 104°39'12.495"W | 0.85 | |
| 5043.00 | 1.200 | 30.700 | 5004.64 | -12.72 | 212.66 | 337.30 | 40°08'45.146"N | 104°39'12.484"W | 0.32 | |
| 5137.00 | 0.400 | 214.900 | 5098.63 | -13.06 | 213.24 | 337.62 | 40°08'45.152"N | 104°39'12.479"W | 1.70 | |
| 5232.00 | 1.000 | 196.700 | 5193.63 | -12.36 | 212.17 | 337.19 | 40°08'45.142"N | 104°39'12.485"W | 0.67 | |
| 5327.00 | 1.000 | 187.400 | 5288.61 | -11.14 | 210.55 | 336.85 | 40°08'45.126"N | 104°39'12.489"W | 0.17 | |
| 5421.00 | 0.900 | 174.800 | 5382.60 | -9.82 | 209.01 | 336.81 | 40°08'45.110"N | 104°39'12.490"W | 0.25 | |
| 5516.00 | 0.500 | 193.500 | 5477.59 | -8.85 | 207.86 | 336.78 | 40°08'45.099"N | 104°39'12.490"W | 0.48 | |
| 5611.00 | 0.500 | 201.300 | 5572.59 | -8.29 | 207.07 | 336.53 | 40°08'45.091"N | 104°39'12.493"W | 0.07 | |
| 5706.00 | 0.700 | 213.900 | 5667.58 | -7.78 | 206.20 | 336.06 | 40°08'45.083"N | 104°39'12.500"W | 0.25 | |
| 5801.00 | 1.000 | 230.900 | 5762.57 | -7.41 | 205.20 | 335.09 | 40°08'45.073"N | 104°39'12.512"W | 0.41 | |
| 5896.00 | 0.900 | 219.700 | 5857.56 | -7.03 | 204.10 | 333.97 | 40°08'45.062"N | 104°39'12.526"W | 0.22 | |
| 5991.00 | 0.700 | 256.800 | 5952.55 | -6.95 | 203.40 | 332.93 | 40°08'45.055"N | 104°39'12.540"W | 0.57 | |
| 6086.00 | 0.900 | 308.600 | 6047.54 | -7.81 | 203.73 | 331.78 | 40°08'45.058"N | 104°39'12.555"W | 0.76 | |
| 6181.00 | 1.200 | 335.000 | 6142.53 | -9.50 | 205.10 | 330.78 | 40°08'45.072"N | 104°39'12.568"W | 0.59 | |
| 6276.00 | 1.000 | 341.000 | 6237.51 | -11.30 | 206.78 | 330.09 | 40°08'45.088"N | 104°39'12.576"W | 0.24 | |
| 6371.00 | 1.100 | 316.900 | 6332.49 | -13.01 | 208.23 | 329.19 | 40°08'45.103"N | 104°39'12.588"W | 0.47 | |
| 6466.00 | 0.700 | 275.200 | 6427.48 | -14.23 | 208.95 | 327.99 | 40°08'45.110"N | 104°39'12.603"W | 0.78 | |
| 6529.00 | 0.900 | 242.600 | 6490.48 | -14.48 | 208.76 | 327.17 | 40°08'45.108"N | 104°39'12.614"W | 0.78 | |
| 6562.00 | 1.000 | 245.000 | 6523.47 | -14.52 | 208.51 | 326.68 | 40°08'45.106"N | 104°39'12.620"W | 0.33 | |
| 6593.00 | 2.000 | 190.500 | 6554.46 | -14.14 | 207.87 | 326.33 | 40°08'45.099"N | 104°39'12.625"W | 5.28 | |
| 6625.00 | 5.800 | 175.300 | 6586.38 | -12.26 | 205.71 | 326.36 | 40°08'45.078"N | 104°39'12.624"W | 12.20 | |
| 6656.00 | 9.400 | 172.400 | 6617.11 | -8.51 | 201.64 | 326.83 | 40°08'45.038"N | 104°39'12.618"W | 11.67 | |
| 6688.00 | 12.000 | 171.100 | 6648.55 | -3.01 | 195.76 | 327.69 | 40°08'44.979"N | 104°39'12.607"W | 8.16 | |
| 6720.00 | 14.300 | 173.900 | 6679.71 | 3.69 | 188.54 | 328.62 | 40°08'44.908"N | 104°39'12.595"W | 7.46 | |
| 6751.00 | 17.200 | 173.900 | 6709.54 | 11.36 | 180.17 | 329.52 | 40°08'44.825"N | 104°39'12.584"W | 9.35 | |
| 6783.00 | 21.600 | 172.400 | 6739.71 | 21.10 | 169.63 | 330.80 | 40°08'44.721"N | 104°39'12.567"W | 13.84 | |
| 6814.00 | 25.800 | 173.000 | 6768.09 | 32.56 | 157.27 | 332.38 | 40°08'44.599"N | 104°39'12.547"W | 13.57 | |
| 6846.00 | 29.800 | 174.000 | 6796.39 | 46.20 | 142.44 | 334.06 | 40°08'44.453"N | 104°39'12.525"W | 12.58 | |
| 6878.00 | 30.700 | 173.200 | 6824.04 | 60.92 | 126.42 | 335.86 | 40°08'44.294"N | 104°39'12.502"W | 3.08 | |
| 6909.00 | 32.400 | 175.900 | 6850.46 | 75.62 | 110.28 | 337.39 | 40°08'44.135"N | 104°39'12.482"W | 7.13 | |
| 6941.00 | 34.700 | 178.700 | 6877.12 | 91.27 | 92.62 | 338.21 | 40°08'43.960"N | 104°39'12.472"W | 8.66 | |
| 6972.00 | 39.100 | 180.900 | 6901.91 | 107.34 | 74.01 | 338.25 | 40°08'43.776"N | 104°39'12.471"W | 14.82 | |
| 7004.00 | 42.800 | 180.300 | 6926.07 | 125.32 | 53.05 | 338.04 | 40°08'43.569"N | 104°39'12.474"W | 11.63 | |
| 7036.00 | 45.300 | 178.200 | 6949.07 | 144.65 | 30.80 | 338.34 | 40°08'43.349"N | 104°39'12.470"W | 9.05 | |
| 7067.00 | 45.700 | 177.900 | 6970.80 | 164.09 | 8.70 | 339.09 | 40°08'43.131"N | 104°39'12.461"W | 1.46 | |
| 7099.00 | 48.100 | 177.100 | 6992.66 | 184.74 | -14.64 | 340.11 | 40°08'42.900"N | 104°39'12.447"W | 7.72 | |
| 7131.00 | 52.000 | 176.000 | 7013.21 | 206.61 | -39.12 | 341.60 | 40°08'42.658"N | 104°39'12.428"W | 12.47 | |



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|----------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|-------------------------|
| 7162.00 | 54.300 | 176.300 | 7031.80 | 228.80 | -63.87 | 343.26 | 40°08'42.414"N | 104°39'12.407"W | 7.46 | |
| 7194.00 | 56.100 | 176.500 | 7050.06 | 252.25 | -90.09 | 344.91 | 40°08'42.155"N | 104°39'12.386"W | 5.65 | |
| 7226.00 | 60.100 | 175.900 | 7066.97 | 276.54 | -117.19 | 346.71 | 40°08'41.887"N | 104°39'12.362"W | 12.60 | |
| 7257.00 | 63.100 | 176.200 | 7081.71 | 300.95 | -144.39 | 348.59 | 40°08'41.618"N | 104°39'12.338"W | 9.71 | |
| 7289.00 | 66.400 | 177.300 | 7095.36 | 326.69 | -173.28 | 350.23 | 40°08'41.333"N | 104°39'12.317"W | 10.77 | |
| 7321.00 | 69.300 | 178.700 | 7107.42 | 352.76 | -202.90 | 351.26 | 40°08'41.040"N | 104°39'12.304"W | 9.93 | |
| 7352.00 | 73.500 | 178.000 | 7117.31 | 378.51 | -232.26 | 352.11 | 40°08'40.750"N | 104°39'12.293"W | 13.72 | |
| 7384.00 | 78.000 | 177.300 | 7125.18 | 405.88 | -263.24 | 353.38 | 40°08'40.444"N | 104°39'12.277"W | 14.22 | |
| 7416.00 | 80.900 | 175.200 | 7131.04 | 433.99 | -294.63 | 355.44 | 40°08'40.133"N | 104°39'12.250"W | 11.12 | |
| 7457.00 | 86.700 | 174.200 | 7135.47 | 470.89 | -335.20 | 359.20 | 40°08'39.733"N | 104°39'12.202"W | 14.35 | |
| 7499.00† | 89.867 | 172.960 | 7136.73 | 509.24 | -376.91 | 363.90 | 40°08'39.320"N | 104°39'12.141"W | 8.10 | 7" Casing Point |
| 7518.00 | 91.300 | 172.400 | 7136.53 | 526.72 | -395.75 | 366.32 | 40°08'39.134"N | 104°39'12.110"W | 8.10 | |
| 7613.00 | 91.200 | 173.700 | 7134.46 | 613.85 | -490.03 | 377.81 | 40°08'38.202"N | 104°39'11.962"W | 1.37 | |
| 7709.00 | 91.300 | 173.200 | 7132.37 | 701.63 | -585.38 | 388.76 | 40°08'37.260"N | 104°39'11.821"W | 0.53 | |
| 7804.00 | 96.500 | 174.700 | 7125.91 | 787.94 | -679.60 | 398.75 | 40°08'36.329"N | 104°39'11.692"W | 5.70 | Final OH BHI MWD Survey |

HOLE & CASING SECTIONS - Ref Wellbore: THOMASON 35C-15HZ AWB Ref Wellpath: THOMASON 35C-15HZ AWP

| String/Diameter | Start MD [ft] | End MD [ft] | Interval [ft] | Start TVD [ft] | End TVD [ft] | Start N/S [ft] | Start E/W [ft] | End N/S [ft] | End E/W [ft] |
|-------------------------|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 13.5in Open Hole | 13.00 | 822.00 | 809.00 | 13.00 | 821.98 | 0.00 | 0.00 | -2.42 | 1.55 |
| 9.625in Casing Surface | 13.00 | 822.00 | 809.00 | 13.00 | 821.98 | 0.00 | 0.00 | -2.42 | 1.55 |
| 8.75in Open Hole | 822.00 | 7519.00 | 6697.00 | 821.98 | 7136.51 | -2.42 | 1.55 | -396.74 | 366.45 |
| 7in Casing Intermediate | 13.00 | 7499.00 | 7486.00 | 13.00 | 7136.73 | 0.00 | 0.00 | -376.91 | 363.90 |
| 6.125in Open Hole | 7499.00 | 7898.00 | 399.00 | 7136.73 | NA | -376.91 | 363.90 | NA | NA |